

Substitute Form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

### Complete if Known

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1704 1753
Examiner Name	WOOD

Attorney Docket Number SABI-30144

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 3,702,886	11-14-1972	Argauer, et al.	
		US- 3,965,207	06-22-1976	Weinstein	
		US- 4,278,827	07-14-1981	Chu, et al.	
		US- 5,210,356	05-11-1993	Shamshoum, et al.	
		US- 5,227,558	07-13-1993	Shamshoum, et al.	
		US- 5,336,824	08-09-1994	Shamshoum, et al.	
		US- 5,349,113	09-20-1994	Chang, et al.	
		US- 5,387,732	02-07-1995	Shamshoum, et al.	
		US- 5,847,255	12-08-1998	Ghosh, et al.	
		US- 5,907,073	05-27-1999	Ghosh	
		US- 5,990,031	11-23-1999	Ghosh	
		US- 5,994,603	11-30-1999	Mohr, et al.	
		US- 6,057,485	05-02-2000	Merrill, et al.	
		US- 6,090,991	07-18-2000	Butler, et al.	
		US- 6,096,938	08-01-2000	Ghosh	
		US- 6,222,084B1	04-24-2001	Ghosh, et al.	
		US- 6,268,305B1	07-31-2001	Butler, et al.	
		US- 6,504,072B1	01-07-2003	Brown, et al.	
		US-			

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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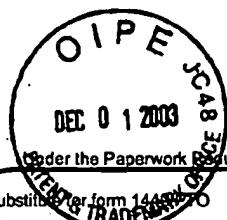
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TRADEMARKSINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet

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of

3

Complete if Known

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1764 1753
Examiner Name	WOOD
Attorney Docket Number.	SABI-30144

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
AA	KAEDING, W.W., et al., Selective Alkylation of Toluene to Produce para-Xylene, Journal of Catalysis 67, 1981, pp. 159-174. *		
AB	HIBINO, T., et al., Shape-Selectivity Over HZSM-5 Modified by Chemical Vapor Deposition of Silicon Alkoxide, Journal of Catalysis 128, 1991, pp. 551-558. *		
AC	YASHIMA, T., et al., Selective Formation of p-Xylene by Alkylation of Toluene with Methanol on ZSM-5 Type Zeolites, Stud. Surf. Sci. Catal., 1981, 7, pp. 739-751. *		
AD	SAYED, M. B., et al., The Effect of Modification with Boron on the Catalytic Activity and Selectivity of HZSM-5, Journal of Catalysis 101, 1986, pp. 43-55*		
AE	KIM, J.-H., et al., Generation of Shape-Selectivity of p-Xylene Formation in the Synthesized ZSM-5 Zeolites, Journal of Catalysis 173, 1998, pp. 433-439. *		
AF	VINEK, H., et al., Production and Reactions of Xylenes over H-ZSM-5, Journal of Molecular Catalysis, 64, 1991, pp. 23-39. *		
AG	CHEN, N.Y., Reactions of Mixtures of Toluene and Methanol Over ZSM-5, Journal of Catalysis 114, 1988, pp. 17-22. *		
AH	YOUNG, L.B., et al., Shape Selective Reactions with Zeolite Catalysts, Journal of Catalysis 76, 1982, pp. 418-432. *		
AI	NIRULA, S.C., Para-Xylene From Toluene and Methanol, Process Economics Program, 1983, pp. 1-23, SRI International, Menlo Park, CA. *		
AJ	WANG, I., et al., Para-selectivity of Diaklybenzenes over Modified HZSM-5 by Vapour Phase Deposition of Silica, Applied Catalysis, 54, 1989, 257-266*		

Examiner Signature	WOOD	Date Considered	3/1/05
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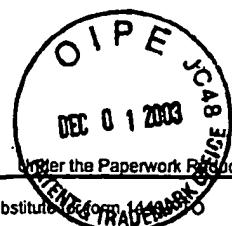
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/632,254		
Filing Date	August 1, 2003		
First Named Inventor	Ashim Kumar Ghosh		
Art Unit	1785		
Examiner Name	WDD		
Sheet 3	of 3	Attorney Docket Number	SABI-30144

### NON PATENT LITERATURE DOCUMENTS

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	AK	DAS, J., et al., Ethylbenzene Dealkylation and Realkylation over Pore Size Regulated MFI Zeolite, Ind. Eng. Chem. Res., 32, 1993, pp. 2525-2529.	<input checked="" type="checkbox"/>
	AL	KIM, J.-H., et al., Para-selectivity of Metallosilicates with MFI Zeolite Structure Zeolites, Vol. 11, 1991, pp. 59-63.	<input checked="" type="checkbox"/>
	AM	KIM, J.-H., et al., Preparation of Highly Para-selective Metallosilicate Catalysts for Alkylation of Ethylbenzene with Ethanol, Applied Catalysis A:100, 1993, pp. 27-36.	<input checked="" type="checkbox"/>

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet 1 of 9

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	TPR/ 1753
Examiner Name	WooD
Attorney Docket Number	SABI-30144 (STC-03-0004)

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (If Known)			
		US- 4,548,914	10-22-1985	Chu	
		US- 4,590,321	05-20-1986	Chu	
		US- 4,623,530	11-18-1986	Cullo et al.	
		US- 4,623,533	11-18-1986	Young	
		US- 4,638,106	01-20-1987	Pieters et al.	
		US- 4,665,251	05-12-1987	Chu	
		US- 4,670,616	06-02-1987	De Simone et al.	
		US- 4,673,787	06-16-1987	Nimry et al.	
		US- 4,694,114	09-15-1987	Chu et al.	
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		US- 4,704,495	11-03-1987	Dessau	
		US- 4,716,135	12-29-1987	Chen	
		US- 4,721,827	01-28-1988	Cullo et al.	
		US- 4,727,209	02-23-1988	Chao	
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		US- 4,758,328	07-19-1988	Young	
		US- 4,761,513	08-02-1988	Stacey	
		US- 4,847,223	07-11-1989	Le Van Mao et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T*
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (If Known)				

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3/17/05

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 2

9

#### **Complete If Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1780 <i>175</i>
Examiner Name	<i>Wojcik</i>

Attorney Docket Number SABI-30144 (STC-03-0004)

Examiner, Initials	Cite No.	U. S. PATENT DOCUMENTS		
		Document Number Number-Kind Code* #	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	US- 4,891,930		08-29-1980	Cottrell et al.
	US- 4,873,067		10-10-1989	Valyocsik et al.
	US- 4,891,197		01-02-1990	Derouane et al.
	US- 4,891,467		01-02-1990	Sikkenga
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	US- 4,912,073		03-27-1990	Chu
	US- 4,914,067		04-03-1990	Pellet et al.
	US- 4,835,574		08-19-1990	D'Amore et al.
	US- 4,962,255		10-09-1990	Fraenkel et al.
	US- 4,873,781		11-27-1990	Valyocsik et al.
	US- 5,041,402		08-20-1991	Casci et al.
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	US- 5,047,141		09-10-1991	Chu
	US- 5,068,483		11-26-1991	Barthomeuf et al.
	US- 5,094,995		03-10-1992	Butt et al.
	US- 5,105,047		04-14-1992	Waller
	US- 5,108,579		04-28-1992	Casci
	US- 5,110,776		05-05-1992	Chitnis et al.
	US- 5,124,299		06-23-1992	Waller

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Sheet 3

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First Named Inventor	Ashim Kumar Ghosh
Art Unit	1764 TBS
Examiner Name	Woo

Attorney Docket Number SABI-30144 (STC-03-0004)

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CH		US- 5,171,921	12-15-1992	Gaffney et al.	
		US- 5,173,461	12-22-1992	Absil et al.	
		US- 5,178,748	01-12-1993	Casci et al.	
		US- 5,231,064	07-27-1993	Absil et al.	
		US- 5,233,102	08-03-1993	Butt et al.	
		US- 5,246,688	09-21-1993	Faust et al.	
		US- 5,248,841	09-28-1993	Young	
		US- 5,254,767	10-19-1993	Dwyer	
		US- 5,254,770	10-19-1993	Olson et al.	
		US- 5,294,578	03-15-1994	Ho et al.	
		US- 5,315,033	05-24-1994	Butt et al.	
		US- 5,318,696	06-07-1994	Kowalski	
		US- 5,321,183	06-14-1994	Chang et al.	
		US- 5,338,478	08-09-1994	Dwyer et al.	
		US- 5,345,021	09-06-1994	Casci et al.	
		US- 5,348,643	09-20-1994	Absil et al.	
		US- 5,349,113	09-20-1994	Chang et al.	
		US- 5,365,003	11-15-1994	Chang et al.	
		US- 5,366,948	11-22-1994	Absil et al.	

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		US- 5,367,100	11-22-1994	Gongwei et al.	
		US- 5,371,307	12-06-1994	Guth et al.	
		US- 5,378,670	01-03-1995	Kumar	
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		US- 5,385,718	01-31-1995	Casci et al.	
		US- 5,399,336	03-21-1995	Guth et al.	
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		US- 5,455,213	10-03-1995	Chang et al.	
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		US- 5,503,818	04-02-1996	Nicolaides	
		US- 5,516,738	05-14-1996	Chang et al.	
		US- 5,523,510	06-04-1996	Pellet et al.	
		US- 5,534,239	07-09-1996	Fajula et al.	
		US- 5,536,894	07-16-1996	Degnan et al.	

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08A (08-03)

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5 of 9

## Complete if Known

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1704 1733
Examiner Name	WOOD
Attorney Docket Number	SABI-30144 (STC-03-0004)

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CHW		US- 5,641,146	07-30-1996	Chang et al.	
		US- 5,681,095	10-01-1996	Chen et al.	
		US- 5,563,310	10-08-1996	Chang et al.	
		US- 5,569,805	10-29-1996	Beck et al.	
		US- 5,571,768	11-05-1996	Chang et al.	
		US- 5,573,746	11-12-1996	Chen	
		US- 5,576,256	11-19-1996	Monque et al.	
		US- 5,607,888	03-04-1997	Chang et al.	
		US- 5,607,890	03-04-1997	Chen et al.	
		US- 5,646,314	07-08-1997	Crocco et al.	
		US- 5,648,580	07-15-1997	Chen et al.	
		US- 5,658,454	08-19-1997	Absil et al.	
		US- 5,675,047	10-07-1997	Beck et al.	
		US- 5,689,024	11-18-1997	Schmitt	
		US- 5,698,756	12-16-1997	Beck et al.	
		US- 5,780,563	07-14-1998	Chen et al.	
		US- 5,789,335	08-04-1998	Chen et al.	
		US- 5,811,613	09-22-1998	Bhat et al.	
		US- 5,833,840	10-10-1998	Absil et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner  
Signature

WOOD

Date  
Considered

3/1/05

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet 16

of 9

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	4794 1253
Examiner Name	WOOD
Attorney Docket Number	SABI-30144 (STC-03-0004)

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No.*	Document Number Number/Kind Code* <sup>1</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
CHW		US- 5,902,919	05-11-1999	Chen et al.
		US- 5,905,051	05-18-1999	Wu et al.
		US- 5,922,922	07-13-1999	Haris et al.
		US- 5,925,586	07-20-1999	Sun
		US- 5,939,597	08-17-1999	Dessau et al.
		US- 5,951,983	09-14-1999	He et al.
		US- 5,955,641	09-21-1999	Chen et al.
		US- 5,994,603	11-30-1999	Mohr et al.
		US- 6,034,283	03-07-2000	Ban et al.
		US- 6,040,257	03-21-2000	Drake et al.
		US- 6,046,128	04-04-2000	Kisen et al.
		US- 6,047,544	04-11-2000	Yamamoto et al.
		US- 6,048,818	04-11-2000	Brown et al.
		US- 6,060,633	06-09-2000	Chen et al.
		US- 6,074,975	06-13-2000	Yao et al.
		US- 6,080,303	06-27-2000	Cao et al.
		US- 6,080,698	06-27-2000	Zhang et al.
		US- 6,083,866	07-04-2000	Drake et al.
		US- 6,090,274	07-18-2000	Wu et al.

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No.*	Foreign Patent Document Country Code* Number * Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

Examiner Signature	WOOD	Date Considered	3/11/05
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Sheet 7 of 9

## Complete If Known

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1764 1763
Examiner Name	WODD

Attorney Docket Number SABI-30144 (STC-03-0004)

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No.*	Document Number Number-Kind Code <sup>1</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
CEWD		US- 6,100,437	08-08-2000	Koehl et al.
		US- 6,124,227	09-26-2000	Yao et al.
		US- 6,150,293	11-21-2000	Verduijn et al.
		US- 6,156,949	12-05-2000	Brown et al.
		US- 6,160,191	12-12-2000	Smith et al.
		US- 6,187,982	02-13-2001	Beck et al.
		US- 6,211,104	04-03-2001	Shi et al.
		US- 6,217,748	04-17-2001	Hatanaka et al.
		US- 6,251,263	06-26-2001	Hatanaka et al.
		US- 6,294,493	09-25-2001	Strohmaier et al.
		US- 6,300,535	10-09-2001	van den Berge et al.
		US- 6,306,790	10-23-2001	Rodriguez et al.
		US- 6,342,153	01-29-2002	Guan et al.
		US- 6,388,156	05-14-2002	Ou et al.
		US- 6,395,664	05-28-2002	Boehner et al.
		US- 6,299,530	06-04-2002	Chen et al.
		US- 6,417,421	07-09-2002	Yao
CEWD		US- 6,423,879	07-23-2002	Brown et al.
		US- 6,444,610	09-03-2002	Yamamoto

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No.*	Foreign Patent Document Country Code <sup>1</sup> Number-Kind Code <sup>1</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

Examiner Signature	WODD	Date Considered	3/1/05

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Sheet 8 of 9

### **Complete & Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1795
Examiner Name	22020
Attorney Docket Number	SABI-30144 (STC-03-0004)

U. S. PATENT DOCUMENTS				
Examiner Initials	Case No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of cited Document
		Number-Kind Code (Priority)		
		US- 6,459,008	10-01-2002	Ou et al.
		US- 6,469,095	11-22-2002	Garelis et al.
		US- 6,503,862	01-07-2003	Yamamoto
		US- 6,504,072	01-07-2003	Brown et al.
		US- 6,504,074	01-07-2003	Verduijn et al.
		US- 6,506,954	01-14-2003	Brown et al.
		US- 6,518,213	02-11-2003	Yamamoto et al.
		US- 6,548,725	04-15-2003	Froment et al.
		US- 6,566,293	05-20-2003	Vogt et al.
		US- 6,589,901	07-08-2003	Yamamoto
		US- 6,613,708	09-02-2003	Ou et al.
		US- 6,613,951	09-02-2003	Brown et al.
		US- 6,642,428	11-04-2003	Johnson et al.
		US- 6,689,929	02-10-2004	Williams et al.
		US- 6,699,811	03-02-2004	Mohr et al.
		US- 6,723,297	04-20-2004	Chen et al.
		US- 6,726,834	04-27-2004	Quesada et al.
		US- 6,770,251	08-03-2004	Yoshikawa
		US- 6,773,694	08-10-2004	Lesch et al.

### External Signature

**Date**

3/11/05

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 8 of 9

**Complete if Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1764
Examiner Name	SOOD
Attorney Docket Number	SARL-301144

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code(s) Pending	Publication Date MM-CD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Column, Lines, Where Relevant Passages or Relevant Figures Appear
<i>W. J. Coffey</i>	1	US- 6,799,089	09-28-2004	Toulhoat	
	2	US- 6,811,684	11-02-2004	Mohr et al.	
	3	US- 6,812,181	11-02-2004	van der Berg et al.	
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